

# **METHOD AND APPARATUS FOR PERFORMING BIT LOADING IN A MULTICARRIER SYSTEM**

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## **ABSTRACT**

Bit loading is performed in a multicarrier communication system in an efficient and computationally simple manner. In at least one embodiment, bit loading techniques are used that allow bit loading to be performed using fixed point  
10 computation. A bit loading cost function may be used that is calculated as the difference between two other functions. In one approach, the two other functions may be implemented as lookup tables. Bits may be allocated to subchannels having a lowest cost.